) EYE-LCD-1700/2100-HB-BC

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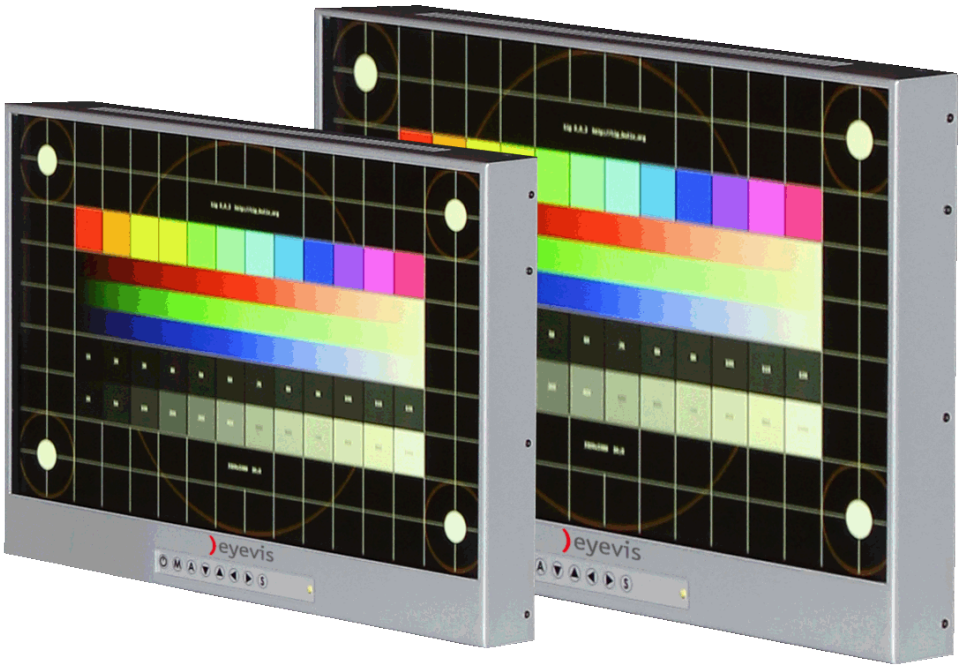
PERFECT VISUAL SOLUTIONS



) EYE-LCD-1700/2100-HB-BC

User's Manual

Version 1.1 (Dezember 2012)

Technical changes reserved.

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REVISION HISTORY

VERSION	DATE	PAGE / SECTION	DESCRIPTION
1.0	2011-10-17	All	Specification first issued
1.1	2012-12-20	All	New layout

ABOUT THIS MANUAL

Read and pay attention to this manual. It contains important information on the product. In particularly, note all of the safety instructions and warnings.

Keep this manual in a safe place!

Warnings used

NOTICE!

Indicates a hazard that could lead to damage or destruction of the product.

The general warning symbol indicates a hazard that could lead to injuries or death. In the text section, the general warning symbol is used in conjunction with the warning levels described below.

⚠ CAUTION

Indicates a hazard that could lead to minor or moderate injuries.

⚠ WARNING

Indicates a hazard that could lead to death or serious injury.

⚠ DANGER

Indicates a hazard that leads to immediate death or serious injury.

Symbols used

1. 2. 3.	Indicates a set of actions that have to be performed in the predetermined order.
) ✓	Indicates a single action or multiple actions which do not have to be performed in any specific order.
	Indicates a button action

ZU DIESEM HANDBUCH

Lesen und beachten Sie dieses Handbuch. In ihm stehen wichtige Informationen zum Produkt. Beachten Sie insbesondere alle Sicherheits- und Warnhinweise.

Bewahren Sie dieses Handbuch sorgfältig auf!

Verwendete Warnhinweise

ACHTUNG!

Kennzeichnet eine Gefahr, die zur Beschädigung oder Zerstörung des Produkts führen kann.

Das allgemeine Warnsymbol kennzeichnet eine Gefahr, die zu Verletzungen oder zum Tod führen kann. Im Textteil wird das allgemeine Warnsymbol in Verbindung mit den nachfolgend beschriebenen Warnstufen verwendet.

⚠VORSICHT

Kennzeichnet eine Gefahr, die zu leichten oder mittleren Verletzungen führen kann.

⚠WARNUNG

Kennzeichnet eine Gefahr, die zum Tod oder zu schweren Verletzungen führen kann.

⚠ GEFAHR

Kennzeichnet eine Gefahr, die unmittelbar zum Tod oder zu schweren Verletzungen führt.

Benutzte Symbole

1. 2. 3.	Kennzeichnet ein Folge von Handlungsschritten, deren vorgegebene Reihenfolge eingehalten werden muss.
) ✓	Kennzeichnet einen einzelnen Handlungsschritt oder mehrere Handlungsschritte, jedoch ohne feste Abfolge.
	Kennzeichnet ein Aktionsfeld

À PROPOS DE CE MANUEL

Lisez et suivez ces instructions. Ils contient des informations importantes sur le produit. Faites particulièrement attention à toutes les consignes de sécurité et aux avertissements.

Conservez ce manuel soigneusement!

Des symboles d`avertissement utilisés

ATTENTION!

Indique un danger qui peut endommager ou détruire le produit.

Le symbole d‘avertissement général indique un danger qui pourrait entraîner des blessures ou la mort. Dans le texte, le symbole d‘avertissement général est utilisé en conjonction avec les niveaux d´alerte décrits ci-dessous.

⚠ PRÉCAUTION

Indique un danger qui pourrait provoquer des blessures mineures ou modérées.

⚠ AVERTISSEMENT

Indique un danger qui peut provoquer des blessures graves, voire mortelles.

⚠ DANGER

Indique un danger qui provoquer la mort ou des blessures graves.

Symboles utilisés

1. 2. 3.	Signifie une série d’actions qui doivent être executeés dans l’ordre chronologique.
) ✓	Désigne une action unique ou plusieurs d’actions, qui peuvent être executées dans un ordre quelconque.
	Indique une action de bouton

1. SAFETY/SICHERHEIT/SÉCURITÉ

1.1 SAFETY PRECAUTION

Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your LCD product, please read the following precautions carefully before using the product.

- Read instructions — All operating instructions must be read and understood before the product is operated.
- Keep this manual in a safe place — These safety and operating instructions must be kept in a safe place for future reference.
- Observe warnings — All warnings on the product and in the instructions must be observed closely.
- Follow instructions — All operating instructions must be followed.
- Cleaning — Unplug the power cord from the AC outlet before cleaning the product. Use a dry cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
- Attachments — Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
- Water and moisture — Do not use the product near water. Do not install the product in a place where water may splash onto it. Be careful of equipment which drains water such as an air-conditioner.
- Ventilation — The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a sofa, rug or other similar surface, since they can block ventilation openings. Do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
- Power cord protection — The power cords must be routed properly to prevent people from stepping on them or objects from resting on them.
- The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the LCD panel breaks.
- Overloading — Do not overload AC outlets or extension cords. Overloading can cause fire or electric shock.
- Entering of objects and liquids — Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.
- Servicing — Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing.
- Repair — If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.
    - ✓ When the power cord or plug is damaged.
    - ✓ When a liquid was spilled on the product or when objects have fallen into the product.
    - ✓ When the product has been exposed to rain or water.
    - ✓ When the product does not operate properly as described in the operating instructions.
    - ✓ Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.

- ✓ When the product has been dropped or damaged.
- ✓ When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.

) Replacement parts — In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.

) Safety checks — Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.

) Wall mounting — When mounting the product on a wall, be sure to install the product according to the method recommended by the manufacturer.

) Heat sources — Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).

) Batteries — Incorrect use of batteries may cause the batteries to burst or ignite. A leaky battery may corrode the equipment, dirty your hands or spoil your clothing. In order to avoid these problems, make sure to observe the precautions below:

- ✓ Use the specified batteries only.
- ✓ Install the batteries with due attention to the plus (+) and minus (-) sides of the batteries according to the instructions in the compartment.
- ✓ Do not mix old and new batteries.
- ✓ Do not mix batteries of different types. Voltage specifications of batteries of the same shape may vary.
- ✓ Replace an exhausted battery with a new one promptly.
- ✓ If you will not use the remote control for a long time, remove the batteries.
- ✓ If leaked battery fluid gets on your skin or clothing, rinse immediately and thoroughly. If it gets into your eye, bathe your eye well rather than rubbing and seek medical treatment immediately. Leaked battery fluid that gets into your eye or your clothing may cause a skin irritation or damage your eye.

) Usage of the monitor must not be accompanied by fatal risks or dangers that, could lead directly to death, personal injury, severe physical damage or other loss, including nuclear reaction control in nuclear facility, medical life support system, and missile launch control in a weapon system.

) Do not stay in contact with the parts of the product that become hot for long periods of time. Doing so may result in low-temperature burns.

1.2 SAFETY INSTRUCTIONS

) The TFT color LCD panel used in this monitor is made with the application of high precision technology. However, there may be minute points on the screen where pixels never light or are permanently lit. Also, if the screen is viewed from an acute angle there may be uneven colors or brightness.

) Please note that these are not malfunctions but common phenomena of LCDs and will not affect the performance of the monitor.

) Do not display a still picture for a long period, as this could cause a residual image.

) Never rub or tap the monitor with hard objects.

) Please understand that eyevis bears no responsibility for errors made during use by the customer or a third party, nor for any other malfunctions or damage to this product arising during use, except where indemnity liability is recognized under law.

) This monitor and its accessories may be upgraded without advance notice.

) Do not use the monitor where there is a lot of dust, where humidity is high, or where the monitor may come into contact with oil or steam, as this could lead to fire.

- Ensure that the monitor does not come into contact with water or other liquids. Ensure that no objects such as paper clips or pins enter the monitor as this could lead to fire or electric shock.
- Do not place the monitor on top of unstable objects or in unsafe places. Do not allow the monitor to receive strong shocks or to strongly vibrate. Causing the monitor to fall or topple over may damage it.
- Do not use the monitor near heating equipment or in places where there is likelihood of high temperature, as this may lead to generation of excessive heat and outbreak of fire.
- Do not use the monitor in places where it may be exposed to direct sunlight.
- Please be sure to constantly remove dust and garbage that has attached to the ventilation opening. If dust collects in the ventilation opening, it may lead to excessive heat, outbreak of fire, or malfunction. As a standard, clean the inside of the monitor once every year. If dust collects inside the monitor, it may lead to excessive heat, outbreak of fire, or malfunction. Please request a cleaning of the inside of the monitor from an authorized Eyevis servicing dealer or service center.
- Images cannot be rotated on this monitor.
- When using in vertical orientation, you will need to prepare appropriately orientated content in advance.

The Power Cord

- Do not damage the power cord nor place heavy objects on it, stretch it or over bend it. Also, do not add extension cords. Damage to the cord may result in fire or electric shock.
- Use only the power cord supplied with the monitor.
- Do not use the power cord with a power tap. Adding an extension cord may lead to fire as a result of overheating.
- Do not remove or insert the power plug with wet hands. Doing so could result in electric shock.
- Unplug the power cord if it is not used for a long time.
- Do not attempt to repair the power cord if it is broken or malfunctioning. Refer the servicing to the service representative.

NOTICE!

This is a class A product according EN 55022: 2010. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate counter measures.

NOTICE!

To maintain compliance with EMC regulations, use shielded cables to connect to the following terminals:
PC/AV DVI-D output terminal, PC/AV DVI-D input terminal, PC/AV HDMI input terminal, PC D-SUB input terminal, PC RGB input terminals, and RS-232C input/output terminals.

⚠ WARNING

If a monitor is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- ✓ Using fixing devices like wall mount brackets recommended by the manufacturer.
- ✓ Only using furniture that can safely support the monitor.
- ✓ Ensuring the monitor is not overhanging the edge of the supporting furniture.
- ✓ Not placing the monitor on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the monitor to a suitable support.
- ✓ Not standing the monitors on cloth or other materials placed between the monitor and supporting furniture.
- ✓ Educating children about the dangers of climbing on furniture to reach the monitor or its controls.

⚠ WARNING

Especially for child safety

- ✓ Don't allow children to climb on or play with the monitor.
- ✓ Don't place the monitor on furniture that can easily be used as steps, such as a chest of drawers.
- ✓ Remember that children can become excited while watching a program, especially on a "larger than life" monitor. Care should be taken to place or install the monitor where it cannot be pushed, pulled over, or knocked down.
- ✓ Care should be taken to route all cords and cables connected to the monitor so that they cannot be pulled or grabbed by curious children.

1.3 SICHERHEITSVORKEHRUNGEN

Elektrizität erfüllt viele nützliche Aufgaben, kann aber auch Personen- und Sachschäden verursachen, wenn sie unsachgemäß gehandhabt wird. Dieses Produkt wurde mit Sicherheit als oberster Priorität konstruiert und hergestellt. Dennoch besteht bei unsachgemäßer Handhabung u.U. Stromschlag- und Brandgefahr. Um mögliche Gefahren zu vermeiden, befolgen Sie beim Aufstellen, Betreiben und Reinigen des Produkts bitte die nachstehenden Anleitungen. Lesen Sie im Interesse Ihrer eigenen Sicherheit sowie einer langen Lebensdauer des LCD-Gerätes zunächst die nachstehenden Hinweise durch, bevor Sie das Produkt in Verwendung nehmen.

- Bedienungsanleitungen lesen — Nehmen Sie das Produkt erst in Betrieb, nachdem Sie alle diesbezüglichen Hinweise gelesen und verstanden haben.
- Bedienungsanleitung aufbewahren — Diese Bedienungsanleitung mit den Sicherheits- und Bedienungshinweisen sollte aufbewahrt werden, damit Sie im Bedarfsfall jederzeit darauf zurückgreifen können.
- Warnungen beachten — Alle Warnungen auf dem Gerät und in den Bedienungsanleitungen sind genauestens zu beachten.
- Anleitungen befolgen — Alle Anleitungen zur Bedienung müssen befolgt werden.
- Reinigung — Ziehen Sie vor dem Reinigen des Produkts das Netzkabel. Reinigen Sie das Gerät mit einem trockenen Tuch. Verwenden Sie keine flüssigen Reiniger oder Aerosol-Sprays.
- Zusatzgeräte und Zubehör — Verwenden Sie ausschließlich vom Hersteller empfohlenes Zubehör. Bei Verwendung anderer Zusatzgeräte bzw. Zubehörteile besteht evtl. Unfallgefahr.
- Wasser und Feuchtigkeit — Benutzen Sie das Gerät nicht in der Nähe von Wasser. Montieren Sie das Gerät unter keinen Umständen an einer Stelle, an der Wasser darauf tropfen kann. Achten Sie dabei besonders auf Geräte, aus denen zuweilen Wasser tropft, wie etwa Klimaanlagen.
- Belüftung — Die Belüftungsschlitze und andere Öffnungen im Gehäuse dienen der Belüftung des Geräts.
- Halten Sie diese Öffnungen unbedingt frei, da eine unzureichende Belüftung zu einer Überhitzung bzw. Verkürzung der Lebensdauer des Produkts führen kann. Stellen Sie das Gerät nicht auf ein Sofa, einen Lappen oder ähnliche Oberflächen, da die Belüftungsschlitze dadurch blockiert werden können. Stellen Sie das Gerät auch nicht in ein umschlossenes Gehäuse, wie z.B. in ein Bücherregal oder einen Schrank, sofern dort nicht für eine ausreichende Belüftung gesorgt ist oder die Anweisungen des Herstellers befolgt werden.
- Netzkabel-Schutz — Die Netzkabel sind so zu verlegen, dass sie vor Tritten geschützt sind und keine schweren Objekte darauf abgestellt werden.
- Das LCD-Panel ist ein Glasprodukt. Es kann daher brechen, wenn es zu Boden fällt oder einen Schlag oder Stoß erhält. Achtung: bei einem Bruch des LCD-Panels besteht durch die Glasstücke Verletzungsgefahr.
- Überlastung — Vermeiden Sie eine Überlastung von Netzsteckdosen und Verlängerungskabeln. Bei Überlastung besteht Brand- und Stromschlaggefahr.
- Eindringen von Gegenständen und Flüssigkeiten — Schieben Sie niemals irgendwelche Gegenstände durch die Gehäuseöffnungen in das Innere des Geräts. Im Produkt liegen hohe Spannungen vor. Durch das Einschieben von Gegenständen besteht Stromschlaggefahr bzw. die Gefahr von Kurzschlüssen zwischen den Bauteilen. Aus demselben Grunde dürfen auch keine Flüssigkeiten auf das Gerät verschüttet werden.
- Wartung — Versuchen Sie auf keinen Fall, selbst Wartungsarbeiten am Gerät durchzuführen. Durch das Entfernen von Abdeckungen setzen Sie sich hohen Spannungen und anderen Gefahren aus. Lassen Sie sämtliche Wartungsarbeiten ausschließlich von qualifiziertem Service-Personal ausführen.
- Reparaturen — Ziehen Sie in den folgenden Situationen sofort das Netzkabel und lassen Sie das Produkt von qualifiziertem Service-Personal reparieren:
  - ✓ Wenn das Netzkabel oder der Netzstecker beschädigt ist.
  - ✓ Wenn Flüssigkeit in das Gerät eingedrungen ist oder Gegenstände in das Gerät gefallen sind.
  - ✓ Wenn das Gerät nass geworden ist (z.B. durch Regen).

- ✓ Wenn das Gerät nicht wie in der Bedienungsanleitung beschrieben funktioniert.
- ✓ Nehmen Sie nur die in den Bedienungsanleitungen beschriebenen Einstellungen vor. Unsachgemäße Einstellungen an anderen Reglern können zu einer Beschädigung führen und machen häufig umfangreiche Einstellarbeiten durch einen qualifizierten Service-Techniker erforderlich.
- ✓ Wenn das Produkt fallen gelassen oder beschädigt wurde.
- ✓ Wenn das Gerät einen anormalen Zustand aufweist. Jedes erkennbare anormale Verhalten zeigt an, dass der Kundendienst erforderlich ist.

) Ersatzteile — Wenn Ersatzteile benötigt werden, stellen Sie bitte sicher, dass der Service-Techniker nur die vom Hersteller bezeichneten Teile oder Teile mit gleichen Eigenschaften und gleichem Leistungsvermögen wie die Originalteile verwendet. Die Verwendung anderer Teile kann zu einem Brand, zu Stromschlag oder anderen Gefahren führen.

) Sicherheitsüberprüfungen — Lassen Sie vom Service-Techniker nach Service- oder Reparaturarbeiten eine Sicherheitsüberprüfung vornehmen, um sicherzustellen, dass das Produkt in einem einwandfreien Betriebszustand ist.

) Wandmontage — Bei der Montage des Gerätes an der Wand ist sicherzustellen, dass die Befestigung nach der vom Hersteller empfohlenen Methode erfolgt.

) Wärmequellen — Stellen Sie das Produkt nicht in der Nähe von Heizkörpern, Heizgeräten, Öfen oder anderen Geräten (wie z.B. Verstärkern) auf, die Hitze abstrahlen.

) Batterien — Durch falsche Anwendung können die Batterien explodieren oder sich entzünden. Eine undichte Batterie kann Korrosion am Gerät verursachen sowie Hände und Kleidung verschmutzen. Um diese Probleme zu vermeiden, beachten Sie bitte die folgenden Sicherheitshinweise:

- ✓ Verwenden Sie nur empfohlene Batterietypen.
- ✓ Achten Sie beim Einlegen der Batterien darauf, dass die Plus- (+) und die Minus- (-) Seite der Batterien gemäß den Anweisungen im Fachinneren richtig ausgerichtet sind.
- ✓ Verwenden Sie nicht alte und neue Batterien gemeinsam.
- ✓ Verwenden Sie keine Batterien unterschiedlichen Typs. Batterien derselben Form können unterschiedliche Spannungswerte besitzen.
- ✓ Ersetzen Sie eine leere Batterie sofort durch eine neue.
- ✓ Wenn Sie die Fernbedienung längere Zeit nicht verwenden, entnehmen Sie die Batterien.
- ✓ Wenn ausgetretene Batterieflüssigkeit auf Haut oder Kleidung gelangt, müssen Sie diese sofort gründlich mit Wasser spülen. Wenn Batterieflüssigkeit in die Augen gelangt, dürfen Sie die Augen auf keinen Fall reiben, sondern am besten mit viel Wasser spülen und sofort einen Arzt aufsuchen. Batterieflüssigkeit kann Hautreizungen hervorrufen oder Augenschäden verursachen.

) Bei der Verwendung des Monitors ist darauf zu achten, dass Gefahren für Leib und Leben, Schäden an Gebäuden und anderen Gegenständen sowie eine Beeinflussung von wichtigen oder gefährlichen Geräten, wie z.B. der Nuklearreaktionssteuerung in Atomanlagen, lebenserhaltenden Geräten in medizinischen Einrichtungen oder Raketenabschusssteuerungen in Waffensystemen vermieden werden.

) Vermeiden Sie es, Teile des Produkts, die sich erwärmen, über längere Zeit hinweg zu berühren. Dies könnte zu leichten Verbrennungen führen.

1.4 SICHERHEITSHINWEISE

) Bei der Herstellung des TFT Farb-LCD-Panels dieses Monitors wurde Präzisionstechnologie eingesetzt. Trotzdem können einzelne Punkte am Bildschirm überhaupt nicht leuchten oder ständig leuchten. Bei Betrachtung des Bildschirms aus einem spitzen Winkel können die Farben oder die Helligkeit unregelmäßig erscheinen. Bitte beachten Sie, dass es sich dabei um keine Qualitätsmängel handelt, sondern um allgemein bei LCD-Geräten auftretende Phänomene, welche die Leistung des Monitors in keiner Weise beeinträchtigen.

- Lassen Sie niemals ein Standbild über längere Zeit hinweg anzeigen, da dies ein Nachleuchten am Bildschirm zur Folge haben könnte.
- Vermeiden Sie es, den Monitor mit harten Gegenständen abzureiben oder zu berühren.
- Wir bitten um Ihr Verständnis, dass eyevis über die gesetzlich anerkannte Leistungshaftung hinaus keine Haftung für Fehler übernimmt, die sich aus der Verwendung durch den Kunden oder einen Dritten ergeben, und auch nicht für sonstige Funktionsstörungen oder Schäden, die während der Verwendung am Gerät entstehen.
- Eine Aktualisierung dieses Monitors und seines Zubehörs ist vorbehalten.
- Verwenden Sie den Monitor nicht an Orten mit hoher Staubentwicklung, hoher Luftfeuchtigkeit oder an Orten, an denen der Monitor mit Öl oder Dampf in Kontakt kommen könnte, da dies zu einem Brand führen könnte.
- Achten Sie darauf, dass der Monitor nicht mit Wasser oder anderen Flüssigkeiten in Berührung kommt. Achten Sie auch darauf, keine Gegenstände, wie z.B. Büroklammern oder sonstige spitze Gegenstände, in den Monitor zu stecken. Die Folge könnte ein Brand oder Stromschlag sein.
- Stellen Sie den Monitor nicht auf instabile Gegenstände oder an andere unsichere Stellen. Setzen Sie den Monitor keinen starken Stößen oder Erschütterungen aus. Wenn der Monitor hinunterfällt oder umkippt, könnte er Schaden nehmen.
- Stellen Sie den Monitor nicht in der Nähe von Heizungen oder an anderen Stellen auf, an denen hohe Temperaturen auftreten, da dies zu einer übermäßig starken Erhitzung mit der Folge eines Brandes führen könnte.
- Stellen Sie den Monitor nicht an Orten auf, an denen er direktem Sonnenlicht ausgesetzt ist.
- Bitte entfernen Sie regelmäßig Staub und Schmutz von der Belüftungsöffnung. Wenn sich Staub an der
- Belüftungsöffnung ansammeln, kann es zu einer Überhitzung des Geräts und in der Folge zu einem Brand oder zu Fehlfunktionen kommen.
- Reinigen Sie das Innere des Monitors mindestens einmal jährlich. Wenn sich Staub im Inneren des Monitors ansammelt, kann es zu einer Überhitzung des Geräts und in der Folge zu einem Brand oder Fehlfunktionen kommen. Bitte lassen Sie das Innere des Monitors von einem autorisierten eyevis-Händler oder einem eyevis Servicecenter reinigen.
- Bilder können auf diesem Monitor nicht gedreht werden. Wenn Sie den Monitor in vertikaler Ausrichtung verwenden, müssen Sie die Bilder zuvor entsprechend drehen.

Das Netzkabel

- Beschädigen Sie das Netzkabel nicht, stellen Sie keine schweren Gegenstände darauf, und überdehnen oder knicken Sie es nicht. Verwenden Sie keine Verlängerungskabel. Ein beschädigtes Kabel kann einen Brand oder Stromschlag verursachen.
- Verwenden Sie nur das mit dem Monitor gelieferte Netzkabel.
- Verwenden Sie das Netzkabel nicht mit einer Mehrfachsteckdose. Die Verwendung eines Verlängerungskabels kann aufgrund von Überhitzung zu einem Brand führen.
- Achten Sie darauf, dass Sie beim Einstecken oder Ausstecken des Netzsteckers keine nassen Hände haben, um einen Elektroschlag zu vermeiden.
- Ziehen Sie das Netzkabel aus der Steckdose, wenn Sie das Gerät längere Zeit über nicht verwenden.
- Führen Sie keine Reparaturversuche an einem beschädigten oder nicht funktionstüchtigen Netzkabel durch. Überlassen Sie Reparaturarbeiten ausschließlich dem Kundendienst.

ACHTUNG!

Dieses Gerät ist ein Produkt der Klasse A gemäß EN 55022: 2010. In Wohnräumen kann dieses Gerät Störsignale erzeugen, die durch entsprechende Abhilfemaßnahmen durch den Benutzer beseitigt werden müssen.

ACHTUNG!

Verwenden Sie EMV-gerechte, abgeschirmte Kabel, um die folgenden Anschlüsse zu verbinden:
PC/AV DVI-DAusgangsanschluss, PC/AV DVI-D-Eingangsanschluss, PC/AV HDMI-Eingangsanschluss, PC D-sub-Eingangsanschluss, PCRGB-Eingangsanschlüsse und RS-232C-Eingangs-/Ausgangsanschlüsse.

⚠WARNUNG

Wenn ein Monitor nicht auf einer stabilen Unterlage aufgestellt wird, besteht die Gefahr, dass er kippt oder fällt. Zahlreiche Verletzungen, besonders bei Kindern, können durch einfache Vorsichtsmaßnahmen vermieden werden:

- ✓ Bei Verwendung der vom Hersteller empfohlenen Befestigungsvorrichtungen, wie z.B. Wandhaken.
- ✓ Stellen Sie den Monitor nur auf Möbelstücke, die ausreichend stark sind.
- ✓ Achten Sie darauf, dass der Monitor nicht über den Rand des Möbelstücks, auf dem er steht, vorsteht.
- ✓ Stellen Sie den Monitor niemals auf ein großes Möbelstück (z.B. einen Schrank oder in ein Bücherregal), ohne sowohl das
- ✓ Möbelstück als auch den Monitor an einem geeigneten Element sicher zu verankern.
- ✓ Stellen Sie den Monitor niemals auf ein Tuch oder andere Materialen, die zwischen dem Monitor und dem Möbelstück, auf dem er steht, liegen.
- ✓ Weisen Sie Kinder eindringlich darauf hin, dass es gefährlich ist, auf ein Möbelstück zu klettern, um an den Monitor oder seine Regler zu gelangen.

⚠WARNUNG

Wichtige Hinweise für die Sicherheit von Kindern

- ✓ Lassen Sie Kinder niemals auf den Monitor klettern oder am Monitor spielen.
- ✓ Stellen Sie den Monitor nicht auf Möbelstücke, die leicht als Stufen verwendet werden könnten, wie zum Beispiel eine Truhe oder Kommode.
- ✓ Bedenken Sie, dass Kinder bei Betrachtung eines Fernsehprogramms – und ganz besonders bei einem “überlebensgroßen”
- ✓ Monitor – in starke Aufregung verfallen können. Der Monitor sollte so aufgestellt werden, dass er nicht umgestoßen oder gekippt werden kann.
- ✓ Alle am Monitor angeschlossenen Kabel und Stränge sollten so verlegt werden, dass neugierige Kinder nicht daran ziehen oder sie ergreifen können.

1.5 PRÉCAUTIONS DE SÉCURITÉ

L'électricité remplit de nombreuses fonctions utiles, mais elle peut provoquer des blessures et des dégâts matériels si elle n'est pas utilisée correctement. Cet appareil a été conçu et fabriqué en attachant la plus grande importance à la sécurité. Cependant, une utilisation inadéquate peut entraîner une décharge électrique et/ou un incendie. Afin d'éviter tout danger potentiel, veuillez respecter les consignes suivantes lors de l'installation, de l'utilisation et du nettoyage de l'appareil. Afin d'assurer votre propre sécurité et de prolonger la durée de service de votre moniteur LCD, veuillez lire attentivement les précautions ci-dessous avant d'utiliser l'appareil.

- Lisez ces explications — Vous devez lire et comprendre toutes les informations relatives au fonctionnement de l'appareil avant de l'utiliser.
- Conservez cette brochure dans un endroit sûr — Ces explications concernant la sécurité et le fonctionnement doivent être conservées dans un endroit sûr pour vous y référer en cas de besoin.
- Respectez les avertissements — Tous les avertissements figurant sur l'appareil et dans ce mode d'emploi doivent être strictement respectés.
- Suivez les instructions — Toutes les explications sur le fonctionnement doivent être respectées.
- Nettoyage — Débranchez le cordon d'alimentation au niveau de la prise du secteur avant de nettoyer l'appareil. Servez-vous d'un linge sec, et n'employez pas de détergents liquides ou en atomiseur.
- Accessoires — N'utilisez pas d'accessoires non recommandés par le fabricant, car ceci pourrait provoquer des accidents.
- Eau et humidité — N'utilisez pas cet appareil près de l'eau. N'installez pas le produit à un endroit où il pourrait recevoir de l'eau. Évitez en particulier les emplacements sous les appareils à vidange d'eau tels que les climatiseurs.
- Ventilation — Des ouïes et autres ouvertures sont prévues dans le coffret de l'appareil pour sa ventilation. Ne recouvrez pas et ne bouchez pas ces ouvertures car une ventilation insuffisante peut provoquer une surchauffe et réduire la durée de vie de l'appareil. Ne placez pas l'appareil sur un sofa, un tapis ou toute autre surface analogue car ceci pourrait obstruer les ouvertures de ventilation. Cet appareil n'est pas conçu pour une installation encastrée; ne le placez donc pas dans un endroit fermé comme une bibliothèque ou une baie à moins qu'une ventilation adéquate ne soit prévue et que les consignes du fabricant ne soient respectées.
- Protection du cordon d'alimentation — Faites passer les cordons d'alimentation à un endroit où ils ne seront pas écrasés ou coincés par d'autres objets.
- Le panneau de l'écran à cristaux liquides (LCD) de cet appareil est fabriqué en verre et, par conséquent, il peut se briser si l'appareil tombe ou s'il reçoit un fort impact. Veillez à ne pas vous blesser par les éclats de verre si le panneau LCD devait être brisé.
- Surcharge — Ne surchargez pas les prises de courant ou les rallonges car ceci peut entraîner un risque d'incendie ou d'électrocution.
- Insertion de solides ou de liquides — N'introduisez jamais des objets par les orifices de cet appareil, car ils pourraient provoquer une électrocution et/ou un court-circuit en touchant des pièces internes sous haute tension. Pour la même raison, ne renversez jamais de l'eau ou un liquide sur l'appareil.
- Entretien — N'essayez pas de réparer vous-même l'appareil. La dépose des couvercles peut vous exposer à une haute tension ou à d'autres dangers. Confiez toute réparation à un personnel qualifié.
- Réparation — Dans les cas suivants, débranchez le cordon d'alimentation au niveau de la prise secteur et demandez à un personnel qualifié d'effectuer les réparations.
  - ✓ Dégât sur le cordon ou la prise de courant.
  - ✓ Infiltration d'un liquide ou pénétration d'un objet à l'intérieur de l'appareil.
  - ✓ Exposition de l'appareil à la pluie ou à l'eau.
  - ✓ Fonctionnement anormal malgré une conformité aux explications du mode d'emploi. Ne réglez que les commandes dont il est fait mention dans le mode d'emploi. Un réglage incorrect des autres commandes peut

provoquer des dégâts qui nécessiteraient des réparations complexes par un technicien spécialisé.

- ✓ Chute ou dégâts subis par l'appareil.
- ✓ Tout changement notoire ou situation anormale de l'appareil indique qu'une réparation est nécessaire.

) Pièces de rechange — Lorsque des pièces doivent être remplacées, assurez-vous que le technicien a utilisé les pièces spécifiées par le fabricant ou des pièces dont les performances et les caractéristiques sont identiques. Des changements non autorisés de pièces peuvent entraîner un incendie, une électrocution et/ou d'autres dangers.

) Contrôles de sécurité — Après une intervention d'entretien ou de réparation, demandez au technicien de procéder à un contrôle pour être sûr que l'appareil peut être utilisé en toute sécurité.

) Installation sur paroi — Si l'appareil doit être fixé sur une paroi, installez-le en respectant la méthode recommandée par le fabricant.

) Sources de chaleur — Tenez l'appareil à l'écart de sources de chaleur, telles que radiateurs, dispositifs de chauffage, poêles et autres appareils dégageant de la chaleur (y compris les amplificateurs).

) Piles — Une utilisation incorrecte des piles peut les faire éclater ou prendre feu. Une pile qui fuit peut causer des corrosions dans l'équipement, des salissures aux mains ou abîmer vos vêtements. Afin d'éviter ces problèmes, assurez-vous que les précautions suivantes sont appliquées :

- ✓ Utilisez seulement des piles prescrites.
- ✓ Installez les piles en faisant bien attention aux polarités plus (+) et moins (-) des piles selon les instructions dans le compartiment.
- ✓ Ne mélangez pas des piles usagées avec des neuves.
- ✓ Ne mélangez pas des piles de différents types. Les spécifications de voltage des piles de même forme peuvent varier.
- ✓ Remplacez rapidement une pile épuisée par une nouvelle.
- ✓ Si vous n'avez pas l'intention d'utiliser la télécommande pendant une longue période, retirez les piles.
- ✓ Si le liquide provenant d'une pile qui fuit touche votre peau ou vos habits, rincez immédiatement et complètement les parties touchées. Si un oeil est touché, faites immédiatement un bain d'oeil plutôt que de le frotter et cherchez immédiatement un traitement médical. Le liquide provenant de la fuite d'une pile qui atteint votre oeil ou vos habits peut causer une irritation de la peau ou des dommages à votre oeil.

) L'utilisation de ce moniteur ne doit pas entraîner des risques mortels ou des dangers qui pourraient provoquer directement la mort, des blessures sur le personnel, des dommages physiques sévères ou d'autres destructions, y compris dans le contrôle des réactions nucléaires dans les installations nucléaires, dans le système médical de réanimation, et dans le contrôle de lancement des missiles dans les systèmes d'armes.

) N'entrez pas en contact direct avec les parties du produit ayant chauffé pendant de longues périodes. Il pourrait en résulter des brûlures à basse température.

1.6 MESURES DE SÉCURITÉ

) Le panneau couleur LCD TFT utilisé dans ce moniteur est fabriqué en application d'une technologie de grande précision. Cependant, il peut avoir sur l'écran des points minuscules où les pixels ne s'allument jamais ou restent allumés en permanence. De même, si on regarde l'écran avec un angle aigu par rapport à la surface de l'écran, les couleurs et la luminosité peuvent paraître inégales. Notez que ce n'est pas un dysfonctionnement mais un phénomène commun des écrans LCD et que cela n'affectera pas les performances du moniteur.

) N'affichez pas une image fixe pendant une longue période, car cela pourrait provoquer l'apparition d'une image rémanente.

) Ne frottez pas, ne grattez pas le moniteur avec un objet dur.

) Il faut savoir que la Eyevis décline toute responsabilité en cas d'erreurs commises durant l'utilisation par le client ou par une tierce personne, ainsi qu'en cas de dysfonctionnement ou de dommage survenu à ce produit pendant son utilisation, excepté dans le cas de responsabilité reconnue par la loi.

- Ce moniteur et ses accessoires sont susceptibles d'évoluer sans avis préalable.
- N'utilisez pas le moniteur dans un endroit où il y a beaucoup de poussières, où le degré d'humidité est élevé, ou encore là où il pourrait se trouver en contact avec de l'huile ou de la vapeur, car cela pourrait provoquer un début d'incendie.
- Assurez-vous que le moniteur ne se trouve pas en contact avec de l'eau ou d'autres fluides. Assurez-vous qu'aucun objet tel que des agrafes et des trombones ne pénètre dans le moniteur, car cela pourrait provoquer un début d'incendie ou un choc électrique.
- N'installez pas le moniteur au dessus des objets instables ou dans des endroits peu sûrs. Faites attention que le moniteur ne reçoive pas de chocs violents ni de fortes vibrations. Provoquer la chute du moniteur ou le culbuter peut l'endommager.
- N'utilisez pas le moniteur à proximité d'un appareil de chauffage ou dans des endroits où la température est élevée, car cela pourrait conduire à un dégagement excessif de chaleur et provoquer un début d'incendie.
- N'utilisez pas le moniteur dans des endroits exposés directement à la lumière du soleil.
- Veillez à nettoyer fréquemment la poussière et les débris accumulés sur les ouvertures de ventilation. L'accumulation de poussière sur les ouvertures de ventilation risque d'entraîner une surchauffe, un incendie ou un dysfonctionnement. Il est recommandé de nettoyer l'intérieur du moniteur une fois par an. L'accumulation de poussière à l'intérieur du moniteur risque d'entraîner une surchauffe, un incendie ou un dysfonctionnement. Faites nettoyer l'intérieur du moniteur par un revendeur Eyevis ou un centre de services autorisé.
- Il n'est pas possible de faire tourner les images sur ce moniteur. Quand vous travaillez suivant la direction verticale, prévoyez d'orienter au préalable le contenu.

Le cordon d'alimentation

- N'endommagez pas le cordon d'alimentation, ne déposez pas d'objets lourds sur le cordon d'alimentation, ne tirez pas dessus et ne le pliez pas de manière excessive. De même, n'ajoutez pas de rallonges. Tout endommagement du cordon d'alimentation peut provoquer un début d'incendie ou un choc électrique.
- Utilisez seulement le cordon d'alimentation fourni avec le moniteur.
- Ne branchez pas le cordon d'alimentation sur une prise multiple. Ajouter une rallonge peut entraîner une surchauffe et provoquer un début d'incendie.
- Ne débranchez pas ni ne branchez la prise d'alimentation avec des mains humides. En ce faisant, vous risquez un choc électrique.
- Débranchez le cordon d'alimentation si l'équipement n'est pas utilisé pendant une longue période.
- Ne tentez pas de réparer le cordon d'alimentation s'il est coupé ou s'il ne fonctionne pas correctement. Veuillez prendre contact avec le service après vente et suivre ses recommandations.

ATTENTION!

Ce produit appartient à la Classe A d'après la norme EN 55022: 2010. Dans un environnement résidentiel, il peut provoquer des interférences radio et, dans ce cas, l'utilisateur peut être obligé de prendre les mesures nécessaires.

ATTENTION!

Afin de satisfaire aux normes EMC, utiliser des câbles blindés pour connecter les bornes suivantes :
Borne de sortie PC/AV DVI-D, borne d'entrée PC/AV DVI-D, borne d'entrée PC/AV HDMI, borne d'entrée PC D-sub, bornes d'entrée PC RVB, et bornes d'entrée/sortie RS-232C.

⚠ AVERTISSEMENT

Un moniteur placé sur un support instable est dangereux en raison des risques de chute qu'il présente. De nombreuses blessures, touchant en particulier les enfants, peuvent être évitées en prenant quelques précautions simples :

- ✓ Utiliser les dispositifs de fixation tels que les supports muraux fournis par le fabricant.
- ✓ Utiliser uniquement des meubles capables d'accueillir le moniteur en toute sécurité.
- ✓ Vérifier que le moniteur ne dépasse pas du bord du meuble sur lequel il est posé.
- ✓ Ne pas placer le moniteur sur des meubles hauts, armoires ou étagères, par exemple, sans fixer le meuble concerné et le moniteur à un support approprié.
- ✓ Ne pas intercaler de tissu ou toute autre matière entre le moniteur et le meuble sur lequel il est posé.
- ✓ Expliquer aux enfants qu'il est dangereux de grimper sur les meubles pour atteindre le moniteur ou ses boutons de commande.

⚠ AVERTISSEMENT

En particulier pour la sécurité des enfants

- ✓ Ne laissez pas les enfants grimper sur ou jouer avec le moniteur.
- ✓ Ne placez pas le moniteur sur des meubles qui peuvent facilement se transformer en marches comme une commode avec tiroirs.
- ✓ Souvenez-vous que les enfants s'excitent souvent en visionnant un programme, surtout sur un moniteur « plus grand que la normale ». Il faut faire en sorte d'installer le moniteur là où il ne peut pas être poussé, tiré, ni basculé.
- ✓ Il faut faire en sorte de placer les fils et les câbles connectés au moniteur de façon à ce que des enfants curieux ne puissent pas les tirer ni les saisir.

2. FEATURES

Eyevis' new display devices from the EYE-LCD-HB-BC series are portable LCD monitors for professional use in outdoor applications. The range offers displays in two different sizes, 17" and 21". Both versions feature almost the same technical features. The displays provide all necessary connectors and timings for sophisticated use in broadcast aplications.
Thanks to the specially coated screen surface and the high brightness of the panel, the brilliant image characteristics are also available in critical light conditions. The robust protective housing an the 12 volt operation make the devices an ideal solution for preview applications at outdoor broadcast productions.

) The special features are as follows :

- ✓ Bezel width of less than 15mm
- ✓ High Brightness for High luminance
- ✓ Portrait and landscape mode possible
- ✓ Control and status request are available from the outside
- ✓ New: Sunlight readable panel solution for high brightness environment
- ✓ VESA compatibility simplifies quick and easy mounting
- ✓ cTEC features guarantee trouble-free operation, prolong lifetime and reduce the cost of ownership
- ✓ Long-term service & support.
- ✓ Protective glass safety class IP 52
- ✓ Perfect for outdoor use

) Input Connection Possibilities

- ✓ (HD)SDI 1x BNC (loop-htrough)
- ✓ 1x DVI
- ✓ 1x VGA → 1x D-Sub15 (HD-15)
- ✓ 1x S-Video → 1x Y/C S-Vid
- ✓ 1x C-Video → 1x RCA Cinch

3. PACKING AND MEASURES

(Measures and technical values may vary depending on the product version.)

) Box Content EYE-LCD-1700/2100-HB-BC

- ✓ 1 display unit EYE-LCD-1700/2100-HB-BC
- ✓ 1 power cord
- ✓ 1 External Power Supply Unit
- ✓ 1 user's manual

3.1 Way of Packaging

The EYE-LCD display is packed in a carton box. To provide protection during transportation, the EYE-LCD display is surrounded with foam.

) To unpack

1. Release the fastening clips
2. Remove the banding
3. Take the EYE-LCD-1700/2100-HB-BC out of its shipping carton

4. TECHNICAL SPECIFICATIONS

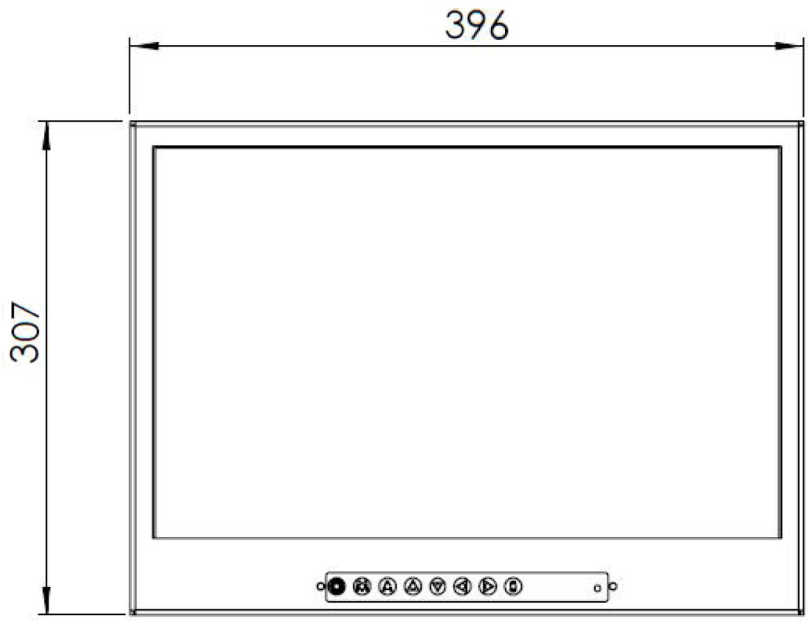
) EYE-LCD-1700-HB-BC

) LCD Display	EYE-LCD-1700-HB-BC
Diagonal	17,1“ (433 mm)
Max. Image Resolution	1440 x 900 Pixel
Pixel Pitch	0,255 x 0,255 mm
Aspect Ratio	16:10
Brightness	1100 cd/m² (typ.)
Contrast	800:1 (typ.)
Backlight	Edge-LED
) Inputs	
(HD)SDI	(HD)SDI 1x BNC (loop-htrough)
DVI (HDCP)	1x DVI
VGA	1x D-Sub15 (HD-15)
S-Video	1x Y/C S-Vid
Composite Video	1x RCA Cinch
) Outputs	
(HD)SDI	(HD)SDI 1x BNC (loop-htrough)
) Timings	
DVI Timings	VGA, SVGA, XGA, SXGA, WXGA, WUXGA
(HD)SDI Timings	480i (59,94 Hz), 575i (50 Hz), 720p (50, 59,94, 60), 1080i (50, 59,94, 60 Hz), 1080p (23,98, 24, 25, 29,97, 30 Hz)
CV & YC Timings	PAL, NTSC
) Electrical & Mechanical	
Input Voltage	12 – 18V DC via XLR 4pol
Housing	steel sheet with protective glasssafety class IP52 (optional IP54) VESA 100 mounting points
Dimensions ca. (BxHxT)	396 x 307 x 65 mm
Weight ca.	4.7 kg
Power Consumption (@12V)	3A (max.)

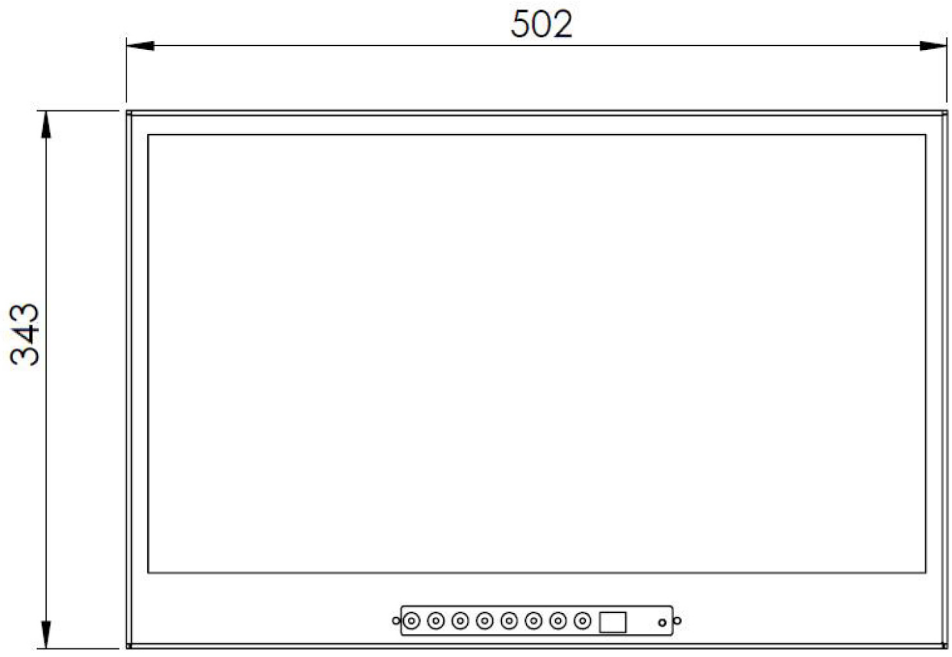
) EYE-LCD-2100-HB-BC

) LCD Display	EYE-LCD-2100-HB-BC
Diagonal	21,5“ (547 mm)
Max. Image Resolution	1920 x 1080 Pixel
Pixel Pitch	0,248 x 0,248 mm
Aspect Ratio	16:9
Brightness	1200 cd/m² (typ.)
Contrast	1000:1 (typ.)
Backlight	Edge-LED
) Inputs	
(HD)SDI	(HD)SDI 1x BNC (loop-htrough)
DVI (HDCP)	1x DVI
VGA	1x D-Sub15 (HD-15)
S-Video	1x Y/C S-Vid
Composite Video	1x RCA Cinch
) Outputs	
(HD)SDI	(HD)SDI 1x BNC (loop-htrough)
) Timings	
DVI Timings	VGA, SVGA, XGA, SXGA, WXGA, WUXGA
(HD)SDI Timings	480i (59,94 Hz), 575i (50 Hz), 720p (50, 59,94, 60), 1080i (50, 59,94, 60 Hz), 1080p (23,98, 24, 25, 29,97, 30 Hz)
CV & YC Timings	PAL, NTSC
) Electrical & Mechanical	
Input Voltage	12 – 18V DC via XLR 4pol
Housing	steel sheet with protective glasssafety class IP52 (optional IP54) VESA 100 mounting points
Dimensions ca. (BxHxT)	502 x 343 x 72 mm
Weight ca.	7.0 kg
Power Consumption (@12V)	4A (max.)

) Dimension EYE-LCD-1700-HB-BC

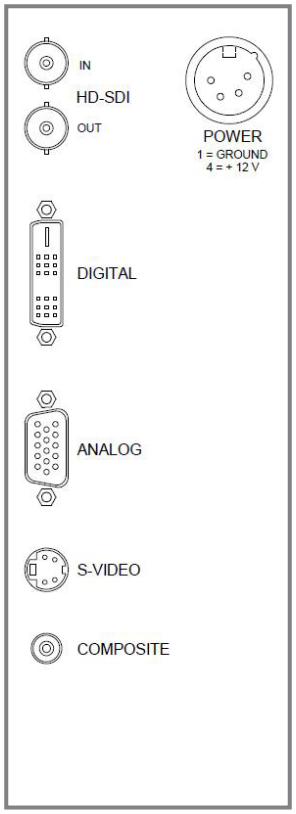


) Dimension EYE-LCD-2100-HB-BC

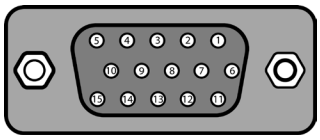


5. INSTALLATION OF THE MONITOR

) Overview of Cable Connection



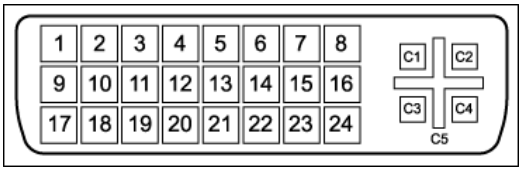
) Connecting Pin assignments for VGA



DSUB 15 pin; female connector

1. Analogue Red
2. Analogue Green
3. Analogue Blue
4. GND
5. GND
6. GND
7. GND
8. GND
9. +5V VGA
10. GND
11. Not connected
12. DDC SDA
13. H sync
14. V sync
15. DDC SCL

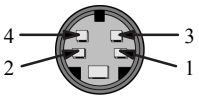
) Connecting Pin assignment for DVI



1. TMDS Data 2-
2. TMDS Data 2+
3. Shielded TMDS Data 2,4
4. TMDS Data 4-
5. TMDS Data 4+
6. DDC Clock
7. DDC Data
8. Analog V-Sync
9. TMDS Data 1-
10. TMDS Data 1+
11. Shielding TMDS Data 1,3
12. TMDS Data 3-
13. TMDS Data 3+
14. +5 Volt
15. Ground for +5 Volt
16. Hot Plug Detect
17. TMDS Data 0-
18. TMDS Data 0+
19. Shielding Data 0,5
20. TMDS Data 5-
21. TMDS Data 5+
22. Shielding TMDS Clock
23. TMDS Clock +
24. TMDS Clock-

C1 Analog Red
C2 Analog Green
C3 Analog Blue
C4 Analog H-Sync
C5 Ground

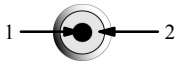
) Connecting Pin assignment for S-Video



MiniDin female connector

1. GND
2. GND
3. Y signal (Brightness)
4. C signal (Colour)

) Connecting Pin assignments for YUV/CVBS, all audio inputs and outputs



1. Signal
2. GND

) Matrix functionaliy

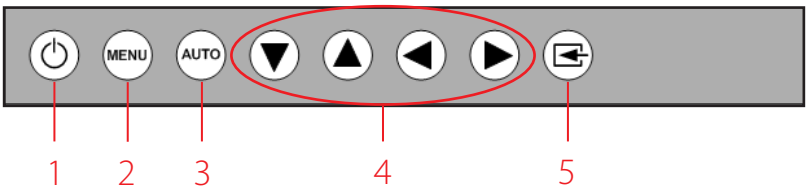
The displays support matrix functionality, i.e. if several displays are provided with the same signal, displays are able to crop "their" respective part of the signal such that the signal is displayed over several screens.
The EYE-LCD2100/1700-HB-BC supports several matrix patterns, ranging from 1x3 to 4x4 walls.

6. USING THE ON SCREEN DISPLAY (OSD) MENU

6.1 Navigating through the Menu System

- With the power on, press **MENU**. The Image Settings menu will display.
- Within the menu, use ▲, ▼, ◄, ► and **ENTER** to navigate through the menus and adjust options.
- Press **MENU** to return to the previous menu. To exit the menu system, press **EXIT**.
- If you press **MENU** or **EXIT**, the settings will saved automatically.

6.2 OSD Keypad



NO	FUNCTION	DESCRIPTION
1	POWER	Turns the monitor ON and OFF
2	MENU	Opens the monitor¡¦s on-screen menu system. When the menu system is already open, pressing this button will select the previous submenu
3	AUTO	Auto configuration of ANALOG display
4	▲, ◄, ►, ▼	Navigates through submenus and settings
5	SOURCE	Change the input source

6.3 Overview OSD Menu

IMAGE	
	BRIGHTNESS / CONTRAST / SATURATION / HUE / SHARPNESS
DISPLAY	
	SCAN MODE / ASPECT MODE / IMAGE POSITION / AUTO ADJUSTMENT / PHASE /CLOCK
COLOR TEMP	
	MONO / 6500K / 7500K / 9300K / USER / RED / GREEN / BLUE
PIP	
	PIP MODE / PIP SOURCE / PIP POSITION / PIP SWAP / PIP BLENDING
Multi vision	
	MULTI VISION / HOR PERCENT / VER PERCENT / SELECTOR COLUMN
SETUP	
	MAIN SOURCE / GAMMA / OSD MENU / MADI MODE / FACTORY RESET / BACKLIGHT
OSD MENU	
	LANGUAGE / OSD TIMEOUT / OSD ROTATION / OSD H POS / OSD V POS / OSD BLENDING
OPTIONS	
	VOLUME WINDOW / VOLUME / MUTE / SET ID / BAUD RATE

6.4 Image Settings Menu

This menu is used for making common image adjustments.

BRIGHTNESS

Increases or decreases the brightness of picture.
Press ◄ or ► to select the desired level.
Press **MENU** to exit.
Range: 0~100 (Default: 50)

CONTRAST

Increases or decreases the contrast of picture.
Press ◄ or ► to select the desired level.
Press **MENU** to exit.
Range: 0~100 (Default: 50)

SATURATION (only Video Mode)

Adjust the brilliance and brightness (only Video Mode).
Press Press ◄ or ►to select the desired level.
Press **MENU** to exit.
Range: 0~100 (Default: 50)

HUE (only Video Mode)

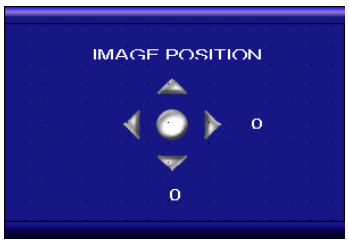
Increases or decreases the hue.
Press Press ◄ or ► to select the desired level.
Press **MENU** to exit.
Range: 0~100 (Default: 50)

SHARPNESS (only Video Mode)

Increases or decreases the sharpness of picture.
Press ◄ or ► to select the desired level.
Press **MENU** to exit.
Range: 0~24 (Default: 12)

6.5 Display Settings Menu

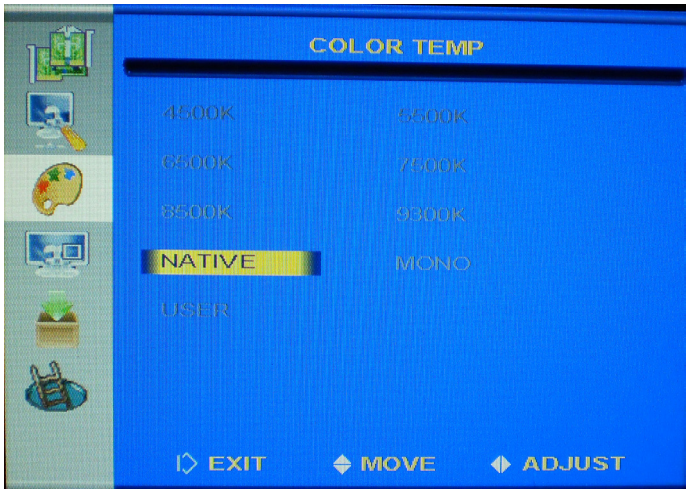
This menu is used for common source adjustments.



SCAN MODE	
	Crop the input based on the input mode and/or input port (video mode crop) Press ► to select following options: (ZERO SCAN or OVER SCAN) Press **MENU** to exit.
ASPECT MODE	
	Changes the picture aspect ratio. Press ► to select the following options: (AUTO, FULL SCREEN, 16:9, 4:3 and 1:1) Press **MENU** to exit.
IMAGE POSITION	**(Enabled in RGB function)**
	- H Position : adjust the horizontal position of image. - V Position : adjust the vertical position of image. Press ► to display the image position window. Press Press ◄ or ►to select the desired level. Press **MENU** to exit.
AUTO ADJUSTMENT	**(Enabled in RGB function)**
	Adjust the clock, phase, and position of display automatically. Press or ► to start the automatically adjustment. Press **MENU** to exit.
PHASE	**(Enabled in RGB function)**
	Adjust the phase of the screen. Press ◄ or ► to select the desired level. Press **MENU** to exit.
CLOCK	**(Enabled in RGB function)**
	Adjust the pixel clock of the screen. Press ◄ or ► to select the desired level. Press **MENU** to exit.

6.6 Color Temp Menu

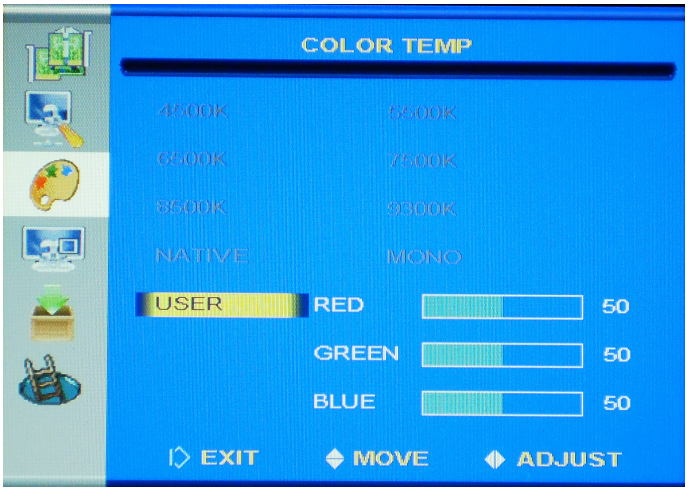
This menu is used for adjusting colour temperatur settings.



COLOR TEMP	
	Adjust the color temperature. Press ▲ or ▼, to select the following options: 4500K, 5500K, 6500K, 7500K, 8500K 9300K, NATIVE, MONO and USER mode. Press **MENU** to exit.
COLOR TEMP USER	
	Adjust the color temperature USER mode. Press ► to display the USER menu. (covered below table)

6.7 Color Temp User Menu

This menu is used for adjusting user colour temperatur settings.



RED

Adjust the red colour. Press ◄ or ► to select the desired level.
Press **MENU** to exit.
Range: 0~100 (Default: 50)

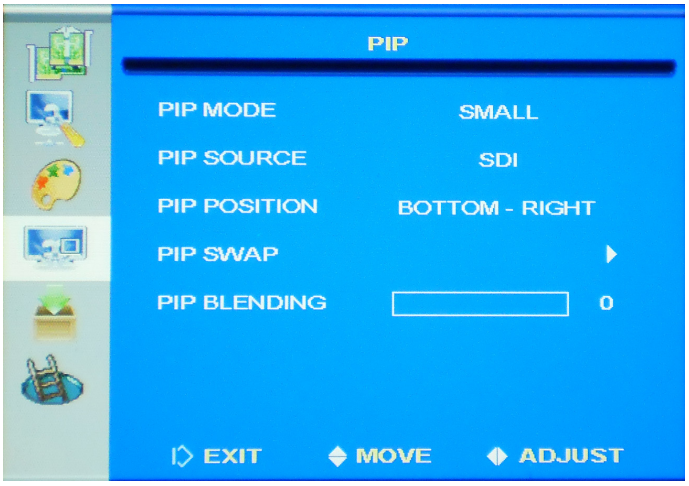
GREEN

Adjust the green colour. Press ◄ or ► to select the desired level.
Press **MENU** to exit.
Range: 0~100 (Default: 50)

BLUE

Adjust the blue colour gain. Press ◄ or ► to select the desired level.
Press **MENU** to exit.
Range: 0~100 (Default: 50)

6.8 PIP Setting Menu



PIP MODE

Press ► to switch ON/OFF the PIP (picture in picture) function.
Press ► to adjust the PIP image size and side by side window set:
(SMALL, MEDIUM, LARGE, SIDE BY SIDE Window)
Press **MENU** to exit.

PIP SOURCE

Select input signal of PIP.
Press ◄ or ► to select the desired source:
(SDI, DIGITAL, ANALOG, COMPOSITE, S-VIDEO)
Press **MENU** to exit.

PIP POSITION

Adjust the PIP position.
Press ► to select the desired PIP position:
(LEFT-TOP, LEFT-BOTTOM, CENTER, RIGHT-TOP and RIGHT-BOTTOM)
Press **MENU** to exit.

PIP SWAP

Swaps MAIN and PIP image for input swap feature.
Press ► to select the desired PIP input source.
Press **MENU** to exit.

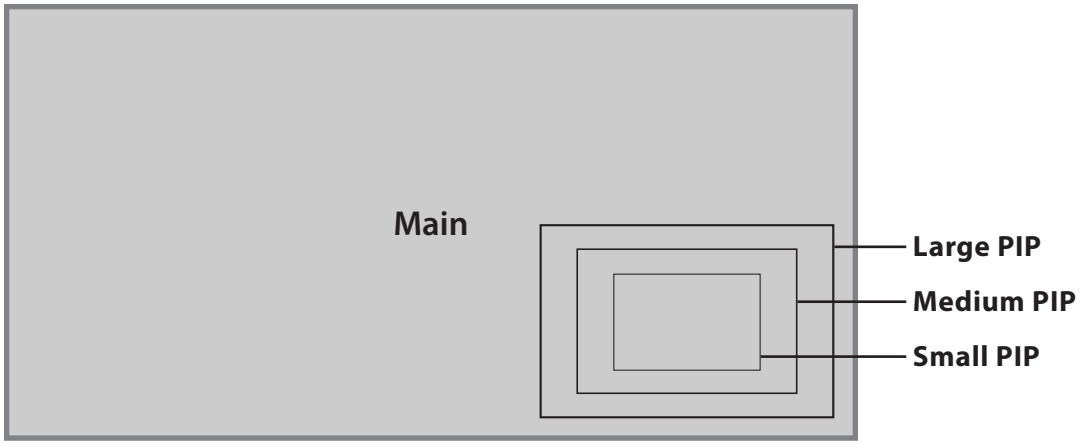
PIP BLENDING

Adjust the transparency of PIP image.
Press ◄ or ► to select the desired level.
Press **MENU** to exit.

6.8.1 Using PIP (Picture-in-Picture) Mode

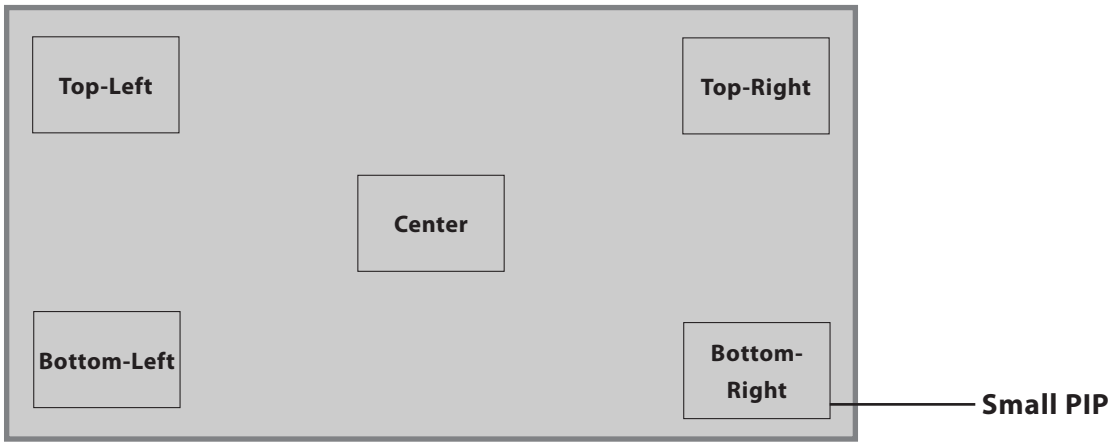
) Turn ON PIP - press ► **to** enter the PIP menu. Select PIP MODE and press ► to switch ON the PIP function.

) Press ◄ or ► to select the desired size sub-source: (SMALL, MEDIUM, LARGE, SIDE BY SIDE Window)

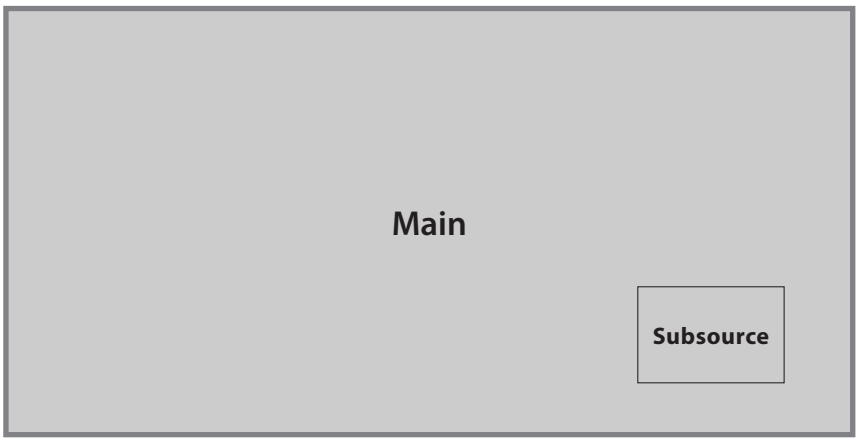


) Select the main source – Select the PIP Source and press ◄ or ► to select the desired source: (SDI, DIGITAL, ANALOG, COMPOSITE, S-VIDEO)

) To switch the main source and the sub-source, select the PIP SWAP and press ► to select the desired PIP position: (LEFT-TOP, LEFT-BOTTOM, CENTER, RIGHT-TOP and RIGHT-BOTTOM)



) To switch audio between the main source and the sub-source: Press **MENU** to exit.
Enter the OPTIONS Menu by pressing ►. Press ► to switch the desired audio: (MAIN or PIP)

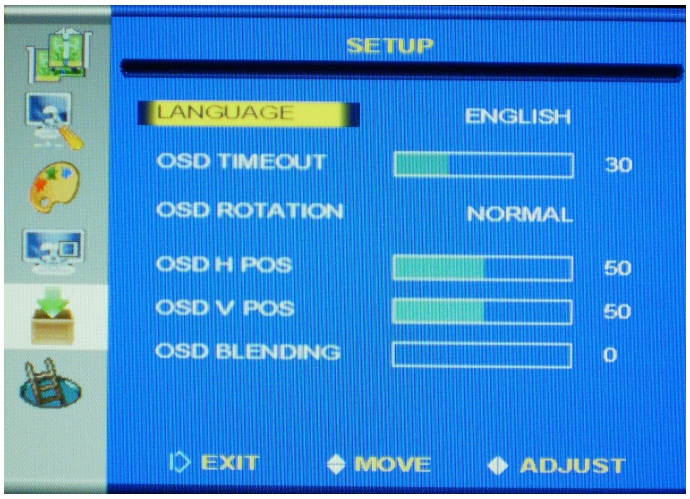


) Side by Side (Picture-by-Picture): Press ◄ or ► to select the SIDE BY SIDE, then the main source and the sub-source will be on the screen display.

6.9 Setup Menu

MAIN SOURCE	
	Selects the input signal. Press ◄ or ► to select the desired input source: (SDI, DIGITAL, ANALOG, COMPOSITE, S-VIDEO) Press **MENU** to exit.
GAMMA	
	Adjust panel gamma curve. Press ◄ or ► to select the desired setting: (LINEAR, CRT, X-RAY) Press **MENU** to exit.
OSD MENU	
	Enter the OSD sub-menus. Press ► to enter the OSD sub-menus. Press **MENU** to exit. (covered below table)
MADI MODE	
	Motion Adaptive De-interlacing Control Press ◄ or ► select the desired setting: (NORMAL, ADAPTIVE and OFF). Press **MENU** to exit.
FACTORY RESET	
	Re-initialize mode independent descriptor and port dependent settings value. Press or ► to start the factory reset. Press **MENU** to exit.
BACKLIGHT	
	Adjust the Pulse Width Modulation control Press ◄ or ► to select the desired level. Press **MENU** to exit. Range: 0~100 (Default: 100)

6.10 Setup OSD Menu (continued)



LANGUAGE

Adjust OSD Language.
Press ◄ or ► to select the desired language:
(ENGLISH, SPANISH, GERMAN, ITALIAN and FRENCH)
Press **MENU** to exit.

OSD TIMEROUT

Adjust the OSD off timer.
Press ◄ or ► to select the desired level.
Press **MENU** to exit.
Range: 0~100 (Default: 10sec)

OSD ROTATION

Adjust the OSD Direction.
Press ► to select the OSD direction:
(NORMAL, 60 DEGREE, 180 DEGREE, 270 DEGREE)
Press **MENU** to exit.

OSD H POS

Adjust the OSD horizontal position.
Press ◄ or ► to select the desired OSD horizontal position.
Press **MENU** to exit.
Range: 0~100 (Default: 50)

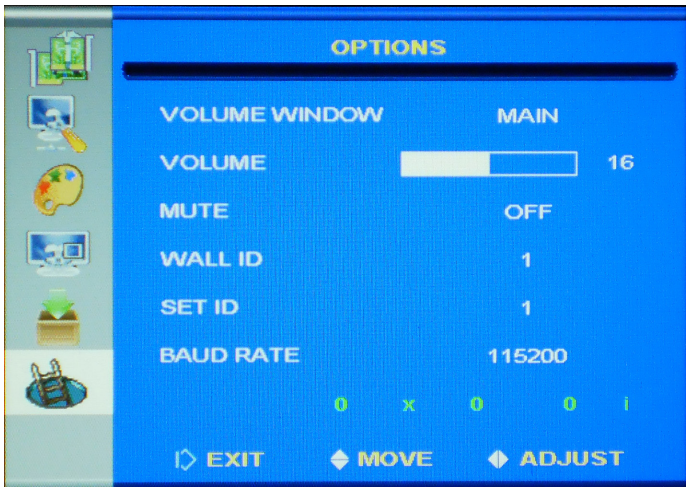
OSD V POS

Adjust the OSD vertical position.
Press ◄ or ► to select the desired OSD vertical position.
Press **MENU** to exit.
Range: 0~100 (Default: 50)

OSD BLENDING

Adjust the OSD transparency.
Press ◄ or ► to select the desired level.
Press **MENU** to exit.
Range: 0~100 (Default: 0)

6.11 Options Menu



VOLUME WINDOW	
	Select the volume source. Press ◄ or ► to select the desired volume source: (MAIN or PIP) Press **MENU** to exit.
VOLUME	
	Adjust the volume for the specified volume window. Press ◄ or ► to select the desired volume level. Press **MENU** to exit. Range: 0~32 (Default: 16)
MUTE	
	Press ► to switch MUTE ON/OFF the volume for the specified volume window. Press ◄ or ► to switch. Press **MENU** to exit.
WALL ID	
	Walls are identified when you come to the RS232 & RS485 communication. Press **MENU** to exit.
SET ID	
	Monitors are identified when you come to the RS232 & RS485 communication. Press **MENU** to exit.
BAUD RATE	
	Select the baud rate. Press ◄ or ► to select the desired baud rate: (115200 bps, 19200 bps, & 9600 bps) Press **MENU** to exit.

7. A GUIDE TO SIMPLE PROBLEM SOLVING - TROUBLESHOOTING

Before calling service personnel, please check the following chart for a possible cause to the trouble you are experiencing.

Symptom	Check these things
) No picture	✓ Make sure the power cord is plugged in ✓ Maybe the power is OFF or Standby ✓ Check whether the auxiliary equipment is connected properly ✓ Check if the input setting is correct ✓ Signal may not be suitable
) The picture colour is pale, or not clear	✓ Check the picture quality adjustment ✓ If you are using YUV terminals, make sure cables are connected correctly

7.1 Malfunction or Trouble

) **If smoke or peculiar smells comes from the unit, remove the power plug from the outlet immediately.**

- ✓ If the unit is still used in this condition, it may cause a fire or an electric shock.
- ✓ Make sure that the smoke or smell has stopped, then contact your dealer for inspection.

) **If there is no picture or sound, remove the power plug from the outlet immediately.**

- ✓ If the unit is still used in this condition, it may cause a fire or an electric shock.
- ✓ Contact your dealer for inspection.

) **If water is spilled or objects are dropped inside the unit, remove the power plug from the outlet immediately.**

- ✓ If the unit is still used in this condition, it may cause a fire or an electric shock
- ✓ Contact your dealer for inspection.

) **If the unit is dropped or the cabinet is damaged, remove the power plug from the outlet immediately.**

- ✓ If the unit is still used in this condition, it may cause a fire or an electric shock.
- ✓ Contact your dealer for inspection.

) **To turn off the power of the unit, unplug the unit from the mains connection.**

- ✓ The power standby/on indicator goes out and you cannot turn the unit on/off by using the POWER button on the remote control.
- ✓ To disconnect the unit completely from the power supply, remove the power plug from the outlet.

) **If the power cord or plug is damaged or becomes hot, turn off the main power switch of the unit, make sure the power plug has cooled and remove the power plug from the outlet.**

- ✓ If the unit is still used in this condition, it may cause a fire or an electric shock. Contact your dealer for replacement.

8. GUIDELINES TO AVOID UNDESIRED EFFECTS BY USING THE DISPLAYS

8.1 Introduction

Thanks to their flexible possibilities of usage, their minor space requirement and their reliable display performance the displays of the EYE-LCD Series have become more and more popular for a wide range of applications.

The displays have been especially designed for the sophisticated use in professional long-time applications. All included technologies, components and functions were chosen for their durability for continuous operation and capability to create best display performance. Even so we have tried our best to provide a perfect display using latest technology and high-end components, it is possible that certain circumstances, especially inappropriate usage of the display, may cause sustainable damage to the image quality of the display.

The panels contained in LCD displays (Liquid Crystal Display) may cause so-called "memory effects" (or "ghost images") if static images are displayed for longer periods. This phenomenon occurs quicker on bigger LCD monitors (>30"). On smaller LCD monitors it needs more time to occur. As far as we know today, it is not possible that the image gets "burnt-in", but there are hardly any long-term experiences with this problem. What can be said is that there is the possibility of "memory- effects" if the displays are switched on for longer periods showing the same static image. These memory-effects look similar to "burnt-in" images on traditional CRT's.

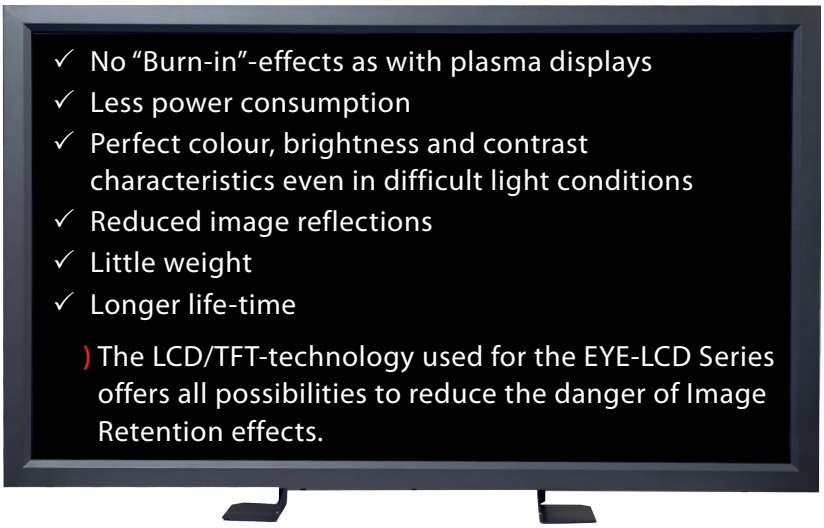
The longer a LCD cell is stimulated mode without a pause, the slower it gets when the stimulating currency is taken away (-> "memory-effect"). The LCD cell does not return completely to its stand-by mode and therefore still lets pass some of the incoming light which leads to these „ghost images".

Unlike real burnt-in images on CRT screens these ghost images on LCD screens disappear when the display is switched off for a while. The ideal solutions would be to switch the screen off for the same time as it has been operated with the static image. In fact the ghost image will disappear after this procedure, but the more often such memory effects occur the shorter gets the time until they appear again. If you think about the monitors on your desk, even if they are smaller, a screen saver is used and this is to avoid the memory effect.

This brochure contains several tips and tricks that help you to avoid this memory-effect. These advices do not guarantee that there will never be any memory-effects on your display. These unwanted effects that may happen to the displays are not a specific problem of the EYE-LCD Series. The problem is caused by the LCD/TFT technology itself and therefore applies to the products of all LCD producers.

As noted in all our offers, memory effects are not covered by any granted warranties.
Memory effects are not considered as defects or faults in terms of our warranty conditions, even not if you have strictly adhered to the instruction given in this brochure.

8.2 Advantages of the EYE-LCD Series over other display technologies



) Differences TFT/LCD vs. Plasma

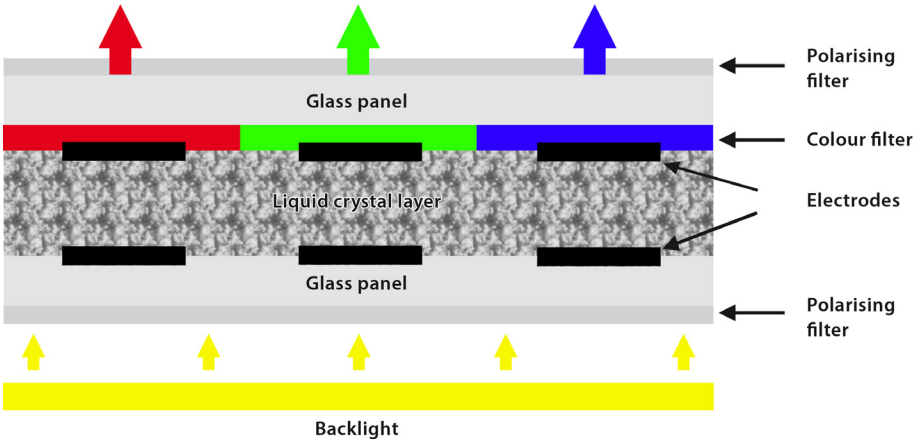
All displays from the EYE-LCD Series are based on the LCD/TFT technology ("Liquid Crystal Display"/ "Thin Film Transistor"). Unlike plasma displays that bear the risk of irreversible "burn-in"-effects, it is almost impossible that similar effects happen to LCDs. But it is possible that temporary "ghost images" can be seen on a LCD when static image content is represented for longer periods. This effect is called "Temporary Image Retention" (TIR) or in its worst version "Image Sticking".
To get a comprehensive understanding of the "image retention" effect it helps to have a closer look on the LCD/TFT technology.

8.3 The LCD/TFT Technology of the EYE-LCD Series:

The light for the LCD/TFT technology used for the displays from eyevis comes from several small fluorescent tubes. These tubes are placed behind several different filter layers and a polarisation filter. In colour LCDs each individual pixel is divided into three cells, or sub-pixels, which are coloured red, green, and blue, respectively, by additional filters (pigment filters, dye filters and metal oxide filters). Each sub-pixel can be controlled independently to yield thousands or millions of possible colours for each pixel. If voltage is connected to a pixel, its polarisation gets changed. This changes the light-flow and the pixel on the screen gets its colour. To achieve a harmonic brightness over the entire screen area it is important to provide a balanced distribution of the light from the tubes. Then again, the light is transmitted through the back polarisation filter which is passable in only one direction. Single sub-pixels can be activated or deactivated by connecting a small voltage to the thin film transistor (= TFT) of each of these sub-pixels. This small voltage turns the liquid crystals. This allows transmitting varying amounts of light through the colour filters and the front polarisation filter. Sub-pixels typically distinguish 6- or 8-Bit grey levels between completely off and on. If the sub-pixel TFT is not activated no light will pass the front polarisation filter which has a 90° turned phase compared to the back polarisation filter.

In contrast to the irreversible "burn-in"-effects with static images on plasma screens, LCD/TFT screens are only affected by temporary image disturbances when they are used in the same way. This temporary image retention can be eliminated by following the advice given below.

The image retention-effect is caused by a persistence of the displayed image. This persistence is caused by minimal electric rest voltage inside the LCD module. Hence the previously displayed image remains visible on the next image.



As already mentioned, this image retention-effect is reversible. The best advice we can give you is probably not to let this effect occur to your display at all. This leaflet gives you the relevant information you need to avoid the appearance of image retention on your LCD/TFT display.

9. EVALUATION OF VISUAL RANGE

9.1 Failure of Pixel

A image point (Pixel) consist 3 sub pixel with basic colour red, green and blue. The physical dimension of pixel (also called pixel pitch) differs depending on the model (look at the data sheet for more information). If a pixel failure is larger than 1/2 pixel, it counts as pixel failure according to definition. 3 kinds of pixel failures are differentiated:

) Permanently bright pixel.

✓ The bright pixel is permanently and with constant size at black testing image.

) Permanent dark pixel.

✓ The pixel appears permanently dark and constant size at red, green and blue testing image.

) Two pixels lying next to each other.

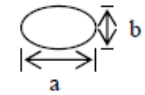
✓ Two directly bordering pixels show a defect.

) Acceptable number of dot defects according to ISO 9241 for Class II (see table „Overview Total Number of Dot Defects“).

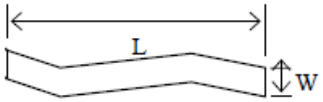
9.2 Pollutions

By the production process and handling of the displays occurs kinds of pollution in range of vision. It can concern inclusions, blistering, depressions, marks, scratch or another. The following tolerance limits is specified:

KIND OF POLLUTION	CRITICAL VALUE
Inclusions / Marks	0,5 < D ≤ 1,2mm, N ≤ 16
Scratch / Lints	0,15 < W ≤ 0,25mm, 0,3 < L ≤ 10,0mm, N ≤ 10
Depressions / Blistering	0,3 < D ≤ 1,2mm, N = 16



D=(a+b)/2



W: width, L : length

9.3 Overview Acceptable Total Number of Dot Defects

) Acceptable total number of dot defects according to ISO 9241-301 for Class II panels:

Resolution	Acceptable total number of defect dots (in relation to the resolution)			
	Defect type 1	Defect type 2	Defect type 3	
	Bright dot	Black dot	Defect bright subpixel Total = 5-n* n* = 0..[5..11]	Defect black subpixel Total = 2xn* n* = 0..[5..11]
1 million pixel	2	2	5 5-n* 0	0 2xn* 10
XGA 1024 x 768 (0.786 million pixel)	2	2	4 4-n* 0	0 2xn* 8
SXGA 1280 x 1024 (1.310 million pixel)	3	3	7 7-n* 0	0 2xn* 14
WXGA 1366 x 768 (1.049 million pixel)	3	3	6 6-n* 0	0 2xn* 12
WXGA+ 1440 x 900 (1.296 million pixel)	3	3	7 7-n* 0	0 2xn* 14
HD 1920 x 1080 (2.073 million pixel)	5	5	11 11-n* 0	0 2xn* 22

Example: Total number of defect subpixel
(in relation to 1 million pixel)

number of bright subpixel n = 4, then are only 2 black subpixel allowed (see on right side)

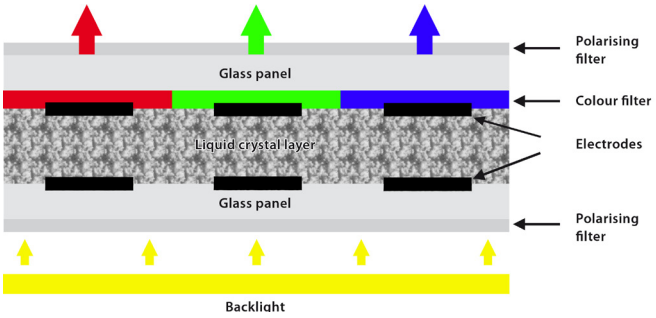
→ 4 bright subpixel + 2 black subpixel

5 bright subpixel + 0 black subpixel
4 bright subpixel + 2 black subpixel
3 bright subpixel + 4 black subpixel
2 bright subpixel + 6 black subpixel
1 bright subpixel + 8 black subpixel
0 bright subpixel +10 black subpixel

) For more information, see the information sheet „Standards for Display Quality Inspection“ of eyevis GmbH.

9.4 Chronological Effects

False installation or use of the display during operating time may bring forth undesirable partly visible effects. The intern structure of imaging part (panel) may be changed by outside influences with partly visible effects.



9.4.1 "Image Sticking"

This phenomenon which named alternatively "Image Retention", „Ghost Image", „Memory Effect" or "Remanent Image" and appears if the fluid crystals of the panel depart from the initial position. This effect may have different causes, which are not clarified technologically. This underisable effect may occur if same content are continual showed for months and thereafter the content change. Then possibly old content are still visible as „shade". These effects are wear marks, which may be intensify by unsuitable usage. It is not a defect!
Image Sticking must not confuse with „Burn-in", which is a known fact of plasma displays and cathode ray tubes and is based on completely different physical mechanisms. Heavy „Image Sticking" may be reversed by long switch off of the LCD/TFT displays, but they appear later again.
„Image Sticking" of TFT panels is excluded from the warranty.

9.4.2 „Mura"

Further effect is Mura (a Japanese term for unevenness), which is visible as cloud formation. These clouds are particularly visible at low brightness. The main reason for the occurrence of Mura is operating the system in wrong temperature specifications. These may generally be caused by to high ambient temperature as well as poor air supply caused by wrong installation or polluted ventilation system.
„Mura" of TFT panels is excluded from the warranty.

9.4.3 Shade formation

Dust particle may build up inside the panel caused by high ambient pollution level. These particles climb up in the panel. This effect starts mostly in corner of the rim through the different layers by convention and capillary formation. These pollutions may be reversed by resolving and cleaning of the panel components in our cleanroom.
Shade formation of TFT panels by pollution is excluded from the warranty.

9.5 How to minimize the Danger of "Image Sticking"

NOTICE!

) Reduce Ambient Temperature

The ambient temperature and therefore the temperature inside the LCD display plays a decisive role for the appearance of „Image Sticking". The risk of „Image Sticking" increases the higher the surrounding temperature is. If possible, the ambient temperature should not exceed 35°C. It is also possible to ensure that the ventilation slots of the display are not covered or polluted by dust.

NOTICE!

) Reduce the Display Brightness to 50 %

Most applications do not require the highest brightness of the displays. The displays can be used with half of the brightness in the same efficient way and do still provide perfect visibility of their content. In addition to that, the reduced brightness enlarges the life-time of the display, saves a lot of energy and allows later readjustments of the brightness level.

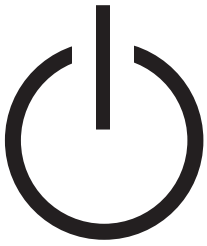
full brightness

half brightness

NOTICE!

) Stand-by-Mode and Switching Off the Device

If the display is not in operation it should always be switched to stand-by mode, or even better, completely switched off. Operating the device even without images displayed shortens the life-time of the display and is an unnecessary waste of energy. Switching off the display or turning it to Stand-by-mode for about six to eight hours per day enlarges the life-time of the product decisively and reduces the risk of „Image Sticking".



NOTICE!

) Operating Time with Static Images

The operating time should be no more than 20 hours a day. The display should be switched off for 4 hours (not only black screen). This enlarge the life-time of the display decisively and reduces the risk of „Image Sticking".

NOTICE!

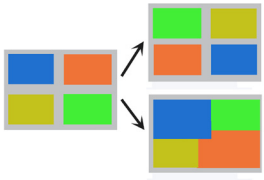
) Screen Saver for Static Images

Certain fields of application depend on the display of static image contents. If possible you should activate a screen saver on the computer for these signals if they do not have to be surveyed as long as they do not change their content.

NOTICE!

) Scaling of the Input Signals

Since they might also cause image retention you should avoid black image borders on the display. Signals that do not have the same native aspect ratio as the display should always be scaled up to use the entire screen area. This guarantees that the entire display surface is used and no black borders can occur. For example, a 4:3 image signal should be scaled up to 16:9 format to fill the complete screen.



9.6 Summary

Unlike permanent burn-in in phosphor-based displays, which is the result of a premature aging of the phosphors of individual pixels, and thus, is irreversible, „Image Sticking“ in LCD panels can often be reversed to a point of total invisibility.

However, the extent to which „Image Sticking“ can be reversed depends on the severity of the causes that eventually led to „Image Sticking“; top in the list is the environmental temperature at which „Image Sticking“ took place.

A way to remove a retained image on an LCD panel is to run an all-white screen saver for several hours. Another way could be turning off the LCD display for a longer period than the time it took for the static image to cause „Image Sticking“.

As on a desktop monitor it is also possible to use a screen saver. Please remember the bigger the size of an LCD monitor, the bigger is the danger for „Image Sticking“ or „Memory Effect“.

If you don’t use the eyecon software, please consider the other described ways to prevent from „Image Sticking“.

) IMPORTANT!
„Image Sticking“ does not have to be a sustainable damage of your LCD display. The „Image Sticking“-effect can not be compared with the “burn-in“ effect that can happen with static image contents on plasma displays. „Image Sticking“ does also take much longer to occur than the “burn-in“-effect. „Image Sticking“ does not affect the length of the life-time of your display. The risk of „Image Sticking“ can be reduced to a minimum by adhering to the given advice.

) As noted in all our offers, „Memory Effects“ are not covered by any granted warranties. „Memory Effects“ are not considered as defects or faults in terms of our warranty conditions.

10. WARRANTY TERMS AND CONDITIONS

10.1 Duration and validity of warranty

The specified product is under warranty for 24 months beginning from the date of delivery by eyevis GmbH, valid for European Union. 12 Months applies to products that were purchased outside the European Union. Warranty services during the warranty period do not extend the validity period of the warranty.

10.2 Proof of purchase

The sales agreement or the invoice (original invoice with serial number) of the first purchaser must be presented as proof of purchase to claim warranty services. If the customer cannot provide this evidence of purchase, the warranty period is dated back to the date of purchase at the specialist supplier (first supplier) plus one month.

10.3 Warranty service or exchange during warranty period

If the product shows any faults or defects during the warranty period, eyevis GmbH provides the following services in compliance with the warranty:

) Defective on arrival

If the product is Dead On Arrival (DOA), the customer has to return the product to the specialist supplier (point of purchase) within 14 days for a new replacement. If the customer does not return the product within 14 days the product will be treated under usual terms of warranty.

) Return-to-Base-Warranty (Bring-In Warranty)

Defective parts or products must be sent back carriage free to eyevis. In certain circumstances can the product sent back to the specialist supplier (place of purchase) or to eyevis service centre (land of purchase).
In the event that the product requiring repair under warranty, the customer is responsible for the cost of transportation to eyevis. Eyevis bears only the one-way costs for the reshipment of repaired or exchanged products to the customer. During in transit the goods are at the owner's risk.

) Repair and Costs **(only products under warranty)**

The defective product is sent to eyevis by the customer and is repaired within 21 days. In this case eyevis bears the costs for eventually required components or the arising working time, as well as for the costs for the reshipment to the customer.

10.3.1 Temporary exchange equipment during repair time (only products under warranty)

Bring-in warranty. The customer can request for an temporary exchange product during the repair time, if the product under warranty cannot be repaired within 30 days. In dependence of availability Eyevis decides whether the equipment can be replaced. Any costs of a return delivery of the exchange equipment, are borne by the customer.

10.3.2 Warranty on Repairs

As a general rule repairs or replacements does not extend or restart the warranty period. The repaired parts/ components will be treated under warranty for 3 months for same kind of problems.

10.4 Warranty Exclusions

10.4.1 General Exclusions

This warranty covers only malfunction due to any defect in material and/or workmanship of a product put into circulation by the eyevis GmbH. Guaranteeing is therefore excluded for any faults and defects beyond the responsibility of the eyevis GmbH, particularly in cases of:

- Improper use, mechanical damages (e.g. marks caused by scratching, pressure or breaking), improper storing or cleaning, transport damages, misuse or any other reason the customer or a third is to blame for, especially if the instructions contained in the manual are not adhered to;
- Display damages caused by the permanent representation of static images (or partially static images).
- Failures or fluctuations of the electrical mains supply, the air conditioning system or other environmental conditions.
- Abnormal operating conditions, including smoke (e.g. cigarette smoke) and dust.
- Act of God, Fire, flood, aggressive chemical, aggressive biological activity, event of war, vandalism, accidents or something similar.
- Errors off all kinds of using defective or incompatible accessories. (Not include components delivered from eyevis which are covered by the product's warranty).
- Attempted repair, setting, change, installation or maintenance by a person not authorized by eyevis GmbH.
- „Image Sticking" (Memory) Effects.

10.4.2 "Image Sticking" (Memory) Effect

"Image Sticking" caused by the representation of static image contents for a longer period is not covered by this warranty.

10.4.3 Accessories

Accessories, such as cardboard boxes, packaging, batteries and other components that are used in connection with this product and that expected to be exchanged re not covered by this warranty.

10.4.4 Failure of Pixel

Failures of pixels cannot be totally avoided with LCD-technology products. They are only considered as failures covered by this warranty if their number exceeds the value determined in the chapter „Evaluation of visual range".

10.4.5 Factory-applied Serial Number

A product that's serial number is damaged, changed or removed is no-longer covered by this warranty.

10.5 Reaction Time

The reaction time to claim a right given by this warranty starts with the customer's announcement of the claim to the eyevis GmbH. It is calculated in accordance to the standard service hours of the eyevis GmbH (monday-friday 9.00 AM to 5.00 PM (CET), except german bank holidays).

10.6 Advised Procedure for Raising a Claim

10.6.1 Consider the Manual before Raising a Claim

See the sections on "Troubleshooting" and in the manual and check whether the problem might be solved on-site before raising a claim referring to this warranty.

10.6.2 Prepare necessary Information

If the problem still exists the customer should try to get support from his regional eyevis GmbH partner. Please prepare the following information:

- ✓ Product identification and serial number of the device
- ✓ A description of the problem in hand
- ✓ Pick-up address and contact information
- ✓ Date and place of purchase
- ✓ A description of the required service work

10.6.3 Approval by eyevis

After performing an analysis of the faults and damages of the device the eyevis GmbH will approve your warranty claim if the necessary requirements are fulfilled. The customer will receive a service code and the eyevis GmbH will prepare the service work chosen by the customer. It is the customer's duty to keep the product ready for collection (in cases of DOA the product has to be equipped with all cablings and mains adaptors before it is put in its box or packed). Should the customer miss to deploy the defective unit for pick up, he is liable for the cost of the replacement unit.

10.6.4 Packing

The eyevis GmbH can provide a suitable transport box on request if the customer can not ensure to be able to pack the defect device correctly and to label t as a breakable good. The customer is liable for damages caused by the use of an improper or unsuitable packing by the customer.

10.6.5 Transport

The customer arranges for the transport of the display to the eyevis GmbH

10.6.6 Service Code

The customer should have his service code ready for any further contacts with the eyevis GmbH in connection with this warranty claim.

10.6.7 Costs for not covered by Warranty Defects

The eyevis GmbH reserves the right to charge the customer for incurred costs caused by complains concerning defects or faults that are not covered by this warranty.

11.1 Legal and other Claims

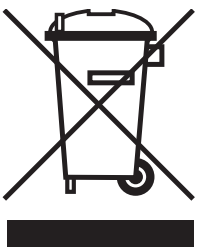
There are no express or implied warranties, representations or conditions other than those stated in this warranty. Other legal or contractual claims, also towards the seller of the product, are excluded as far as the eyevis GmbH has provided service based on this warranty.
This warranty does not affect or has influence on other legal guarantee claims or other contractual claims of the customer towards the seller of the product. These claims can be made alternatively to the claims referred to in this warranty document.

11.2 Limitations of Liability

In cases of slight negligent breaches of duty the liability of the eyevis GmbH is limited to the direct, foreseeable and contract-typical average damage. The slightly negligent breach of minor contractual obligations excludes the liability.
eyevis will not be liable for any loss, damage or alterations to (1) third party furniture, hardware or software; or (2) programs, data or information stored on any media or any part of the Product, no matter how occurring; or for any loss or damage arising from loss of use, loss of profits or revenue, or for any resulting indirect or consequential loss or damage.
The eyevis policy sum regarding all requirements of the warranty does not exceed the original purchase price of the product or alternatively on the part of eyevis, the costs of substitution of the product.
This warranty does not cover normal wear and tear of the Product or parts.
In cases of slight negligent breaches of duty the liability of the eyevis GmbH is limited to the direct, foreseeable and contract-typical average damage. The slightly negligent breach of minor contractual obligations excludes the liability.

As far as the liability of the eyevis GmbH is excluded or limited, this applies also to the personal compensation liability of its staff, employees, associated employees, agents and auxiliary persons.
The preceding limitations of liability do not apply to the customer's claims derived from the Product Liability Act and to claims concerning damages to the body or health or in case of the loss of the life of the customer.

11. CORRECT DISPOSAL



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)
This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.
Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.
Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

12. ADDITIONAL SUPPORT

For additional support for eyevis displays products, please contact:

eyevis GmbH
Hundsschleestrasse 23
D-72766 Reutlingen
Germany

Phone: +49 (0) 7121 / 43303-291
Fax: +49 (0) 7121 / 43303-22

e-mail: info@eyevis.de
www: www.eyevis.de

As at: Dezember 2012

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